

2022 Virginia HAB Task Force Meeting - Session Titles, Speakers, and Bios; in order from 9a-3p

Title: 2021 Virginia HABs: Estuarine monitoring summary

Speaker: Kathryn Mogatas, Supervisor, Old Dominion University (ODU) Phytoplankton Analysis Laboratory

Bio: Kathryn is an algal taxonomist and supervisor of the Phytoplankton Analysis Laboratory at ODU, where she started as a laboratory technician in 2016. Her current ongoing projects include phytoplankton and picoplankton monitoring through the Chesapeake Bay Program, harmful algal bloom monitoring of shellfish growing areas in Virginia through the VDH Division of Shellfish Safety (DSS), and the monitoring of cyanobacteria and their toxins as part of the Virginia HAB Taskforce.

Title: VDH Marine Biotoxin Recap 2021

Speaker: Todd Egerton, Marine Science Supervisor, Virginia Department of Health (VDH), Office of Environmental Health Services, Division of Shellfish Safety and Waterborne Hazards

Bio: Todd has worked with VDH as the Marine Science Supervisor for six years. He is a member of the ISSC Biotoxin Committee and has worked with Harmful Algal Blooms and phytoplankton monitoring in the Chesapeake Bay since 2001.

Title: VIMS - Reece Lab Marine Recap 2021

Speaker: Kim Reece, Chair, Department of Aquatic Health Sciences, Virginia Institute of Marine Science (VIMS)

Bio: Kim has been at VIMS for more than 27 years and has served on the HAB Task Force for more than 20 years. During this time she and her lab members have been working with the Department of Health to monitor the lower Chesapeake Bay waters for HAB organisms using microscopy and PCR assays. Her lab also conducts molecular genetic studies on aquacultured shellfish species and aquatic pathogens of humans and shellfish. A primary focus of her research is examining the biological impacts of harmful algae on aquatic organisms. A key component is the development and optimization of molecular diagnostic assays for viral, bacterial, and protistan organisms, including the HAB species, in various environmental matrices including water, sediments, and shellfish tissues.

Title: Survey of Phycotoxins in Oyster Meat 2019-2020

Speaker: Juliette Smith, Associate Professor, Department of Aquatic Health Sciences, Virginia Institute of Marine Science (VIMS)

Bio: The Smith HAB Lab at VIMS investigates the chemistry, ecology, and ecotoxicology of bioactive compounds synthesized by harmful algal blooms in freshwater, estuarine and marine environments. We are collectively interested in 1) how we impact harmful algal blooms (HABs) and the production of their associated toxins, and 2) how they, in turn, contaminate our ecosystem, alter aquatic communities or ecological function, impact fisheries, and/or threaten public health.

https://www.vims.edu/research/departments/eaah/programs/aquatic_toxinology/index.php

Title: 2021 ODU Freshwater Recap

Speaker: Kathryn Mogatas, Supervisor, Old Dominion University (ODU) Phytoplankton Analysis Laboratory

Bio: *see prior session*

Title: VDH Freshwater Advisories Recap - 2021

Speaker: Margaret Smigo, Waterborne Hazards Program Coordinator, Virginia Department of Health (VDH), Office of Environmental Health Services, Division of Shellfish Safety and Waterborne Hazards

Bio: Margaret has served as the Waterborne Hazards Program Coordinator at VDH for six years, overseeing the Coastal Beach Monitoring Program, Virginia Harmful Algal Bloom Task Force, and supporting outreach and education for waterborne recreational water illness prevention. Prior work experience includes Total Maximum Daily Load (TMDL) Coordinator for the Department of Environmental Quality, Adjunct Biology Teacher at Virginia Commonwealth University (VCU), and Health Inspector for the VDH. Academic and leadership accomplishments include a Fellowship with the Virginia Natural Resources Leadership Institute via the Institute of Engagement and Negotiation at the University of Virginia, in addition to a M.S. in Environmental Studies and B.S. in Biology from VCU.

Title: One Health Harmful Algal Bloom System (OHHABS) Data Entry and Summary of 2021 HAB-related Human Health Effects

Speaker: Amani Bassyouni, Statistical Analyst, Virginia Department of Health (VDH), Office of Environmental Health Services, Division of Shellfish Safety and Waterborne Hazards

Bio: Amani serves as the Stat Analyst for the Waterborne Hazards Program, supporting Beach Monitoring program and the Harmful Algal Bloom Task Force.

Title: 2021 Harmful Algae Bloom and Recreational Advisory for the North Fork Shenandoah River

Speaker: Margaret Smigo, Waterborne Hazards Program Coordinator, Virginia Department of Health (VDH), Office of Environmental Health Services, Division of Shellfish Safety and Waterborne Hazards

Bio: *see morning session*

Title: 2021 Harmful Algae Bloom Response the North Fork Shenandoah River (drinking water perspective)

Speaker: Holly Brown, Emergency Services Coordinator, Virginia Department of Health (VDH), Office of Drinking Water

Bio: Holly has served as the Emergency Services Coordinator for the VDH Office of Drinking Water for two years. She has been supporting emergency response in the Commonwealth for five years.

Title: Interstate Technology Regulatory Council (ITRC) Benthic Harmful Cyanobacteria Bloom (HCB) Team – Upcoming Guidance and Training

Speaker: Beckye Stanton, California Office of Environmental Health Hazard Assessment, ITRC HCB Team co-leader

Bio: Beckye works on harmful algal blooms in freshwater and marine environments for California Office of Environmental Health Hazard Assessment, is co-lead for California Cyanobacterial and Harmful Algal Bloom Network and is co-lead of the ITRC HCB Team. She has a Ph.D. in Pharmacology and Toxicology from UC Davis.

Title: Programmatic updates: 2022 Water Quality Assessment Integrated Report and HABs, General Assembly Session

Speakers: Sandra Mueller, Andrew Garey - Department of Environmental Quality (DEQ), Office of Ecology, Water Monitoring and Assessment Program

Bios: Sandy is DEQ's Water Monitoring and Assessment Program Manager and Drew is the Water Quality Monitoring Team Leader.

Group Session: VIMS and ODU laboratory research & updates for 2022

Title: Prospective Plans for VIMS' FlowCam

Speaker: Savannah Mapes, PhD Student, Virginia Institute of Marine Science (VIMS), Aquatic Health Science Department

Bio: Savannah is a third year PhD student at VIMS in Dr. Kim Reece's lab. The focus of her dissertation has been the biology of harmful algal blooming species in the York River. Before VIMS, Savannah received her Bachelor's degree in Marine Biology at Texas A&M University Galveston (2019), participated in an NSF REU at Mote Marine Lab (2017), and worked for Viridios (summer 2019), a partner with ExxonMobil to research microalgae for biofuel.

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Title: Next steps in 2022 – Smith Lab

Speaker: Juliette Smith, Associate Professor, Department of Aquatic Health Sciences, Virginia Institute of Marine Science (VIMS)

Bio: *see morning session*

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Title: CAAS cube and FlowCam - 2022

Speakers: Kathryn Mogatas, Old Dominion University (ODU) Phytoplankton Analysis Laboratory

Bio: *see morning session*